Kumarran Mahesh

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Skills

Current Interests: Machine Learning, Data Science
Languages: Python, SQL, C, C++
ML Libraries: TensorFlow, Scikit-Learn, Pandas, Keras
Visualization: Matplotlib, Seaborn, Power BI, Tableau
Tools: Jupyter, Google Colab, Git, Streamlit

Education

Indian Institute of Information Technology, Sri City Aug 2023 - Jun 2027
B.Tech in Artificial Intelligence & Data Science *Sri City, Andhra Pradesh*

Projects

Customer Segmentation with K-Means | *GitHub*

- Data Cleaning and Preparation: Performed thorough data cleaning and preparation, ensuring accurate and reliable dataset for analysis.
- Data Visualization: Utilized Matplotlib and Seaborn to create visualizations for exploratory data analysis (EDA), understanding data distributions and customer behaviors.
- Machine Learning Implementation: Applied K-Means clustering to segment customers, demonstrating practical application of machine learning techniques to real-world data.

Crop Recommendation System | *GitHub*

- Developed and Trained Multiple Machine Learning Models: Implemented and evaluated various models, including Random Forest, Gradient Boosting, and Logistic Regression, achieving up to 95% accuracy in crop recommendation.
- Data Preprocessing: Conducted data cleaning, transformation, and improved model's performance and ensured data handling using pipelines in Python.
- Visualization and Statistical Analysis: Utilized Matplotlib and Seaborn to create visualizations for exploratory data analysis (EDA) and applied statistical methods to understand data distributions and correlations.

Virtual Desktop Assistant | *GitHub*

- Developed a voice-based assistant capable of dynamic interaction and system control.
- Integrated speech recognition and text-to-speech using speechRecognition and pyttsx3.
- Enabled functionality like Wikipedia search, app launch (eg., VS Code, Spotify), and browsing.
- Maintained a seamless, continuous interaction loop with users.

Courses & Certifications

Supervised Machine Learning: Regression and Classification | *By DeepLearning.AI & Stanford University (Coursera)*

Python for Data Science, AI & Development | *By IBM (Coursera)*